AUTODOC CLUB

How to change serpentine belt on **BMW E39 touring** – replacement guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:
BMW 7 (E38) 730d 2.9, BMW 5 Saloon (E39) 530d 3.0, BMW 5 Touring (E39) 530d 3.0, BMW X5 (E53) 3.0 d, BMW 3 Saloon (E46) 330d 2.9, BMW 3 Touring (E46) 330d 2.9, BMW 5 Saloon (E39) 525d 2.5, BMW 5 Touring (E39) 525d 2.5, BMW 3 Touring (E46) 330xd 2.9, BMW 3 Saloon (E46) 330xd 2.9

The steps may slightly vary depending on the car design.

REPLACEMENT: SERPENTINE BELT – BMW E39 TOURING. TOOLS YOU'LL NEED:



- Torque wrench
- Combination spanner #16
- Combination spanner #24
- Combination spanner #32
- Clip removal tool
- Fender cover

BUY TOOLS

Replacement: serpentine belt – BMW E39 touring. AUTODOC experts recommend:

- All work should be done with the engine stopped.

REPLACEMENT: SERPENTINE BELT – BMW E39 TOURING. TAKE THE FOLLOWING STEPS:

1 Open the bonnet.



2 Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



3 Remove the fan shroud clips. Use a clip removal tool.



4 Unscrew the cooling fan fastener. Use a combination spanner #32 (2 pieces).



5 Remove the fan shroud. Remove the cooling fan.



6 Pull aside the V belt tensioner pulley. Use a combination spanner #16.



7 Remove the V belt.



Replacement: serpentine belt – BMW E39 touring. AUTODOC recommends:

- Check the condition of the tensioner pulley and idler pulley. Replace them if necessary.

8 Return the tensioner pulley to its initial position.



9 Pull aside the V-ribbed belt tensioner pulley. Use a combination spanner #24.



10 Remove the V-ribbed belt.



Replacement: serpentine belt – BMW E39 touring. Tip from AUTODOC experts:

- Check the condition of the tensioner pulley and idler pulley. Replace them if necessary.

11 Return the tensioner pulley to its initial position.

12

Pull aside the V-ribbed belt tensioner pulley. Use a combination spanner #24.



13

Install the V-ribbed belt.



Replacement: serpentine belt – BMW E39 touring. AUTODOC experts recommend:

- Make sure that the V-ribbed belt fits all pulleys snugly.

14

Return the tensioner pulley to its initial position.



15

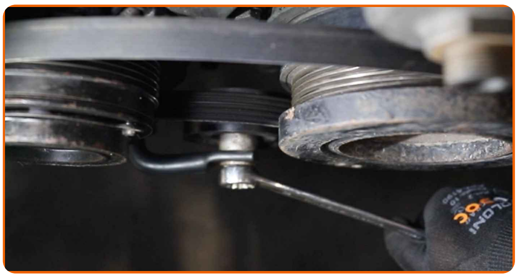
Pull aside the V-ribbed belt tensioner pulley. Use a combination spanner #16.



16 Install the V belt.



17 Return the tensioner pulley to its initial position.



18 Install the cooling fan. Install the fan shroud.



19 Tighten the cooling fan fastener. Use a combination spanner #32 (2 pieces). Use a torque wrench. Tighten it to 33 Nm torque.



20 Install the fan shroud clips.

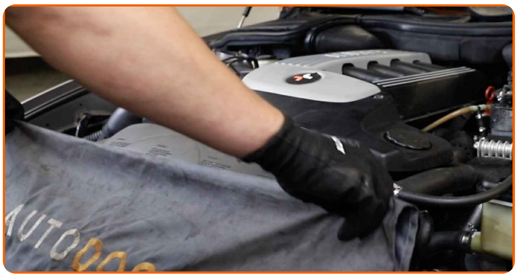


21 Run the engine for a few minutes. This is necessary in order to make sure that the component operates properly.



22 Shut off the engine.

23 Remove the fender protection cover.



24 Close the hood.

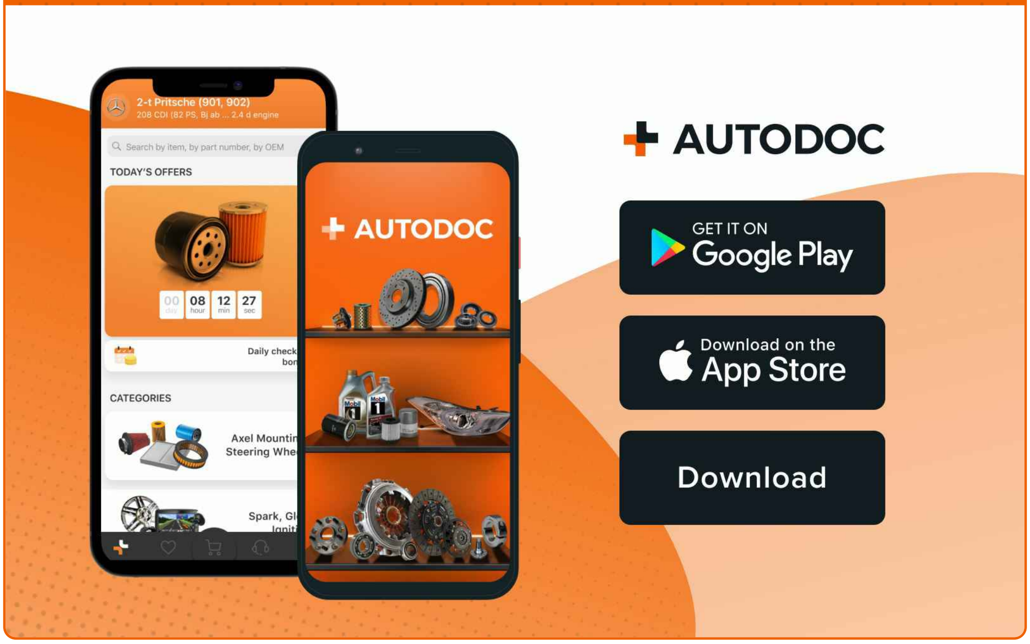


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